

3,450'

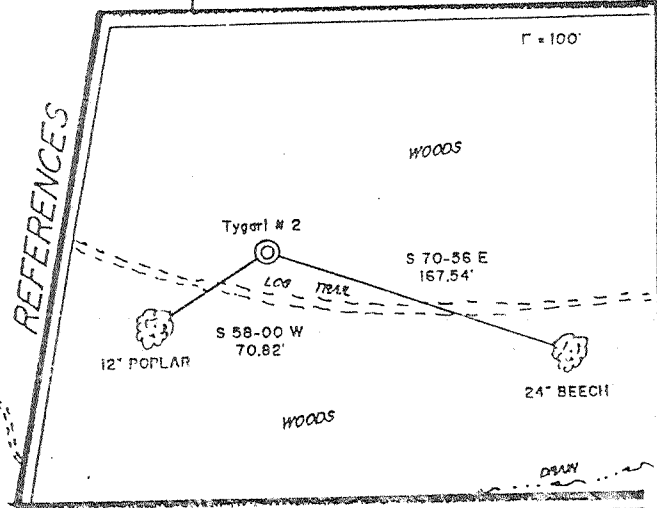
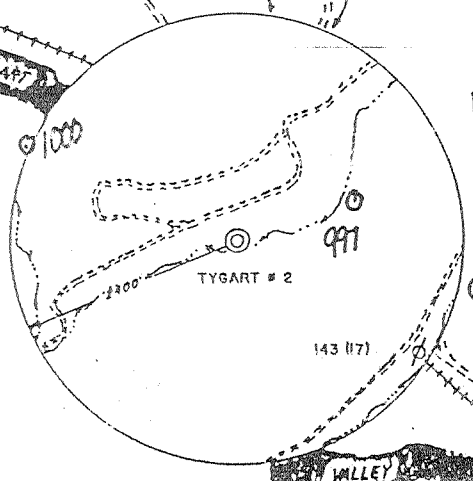
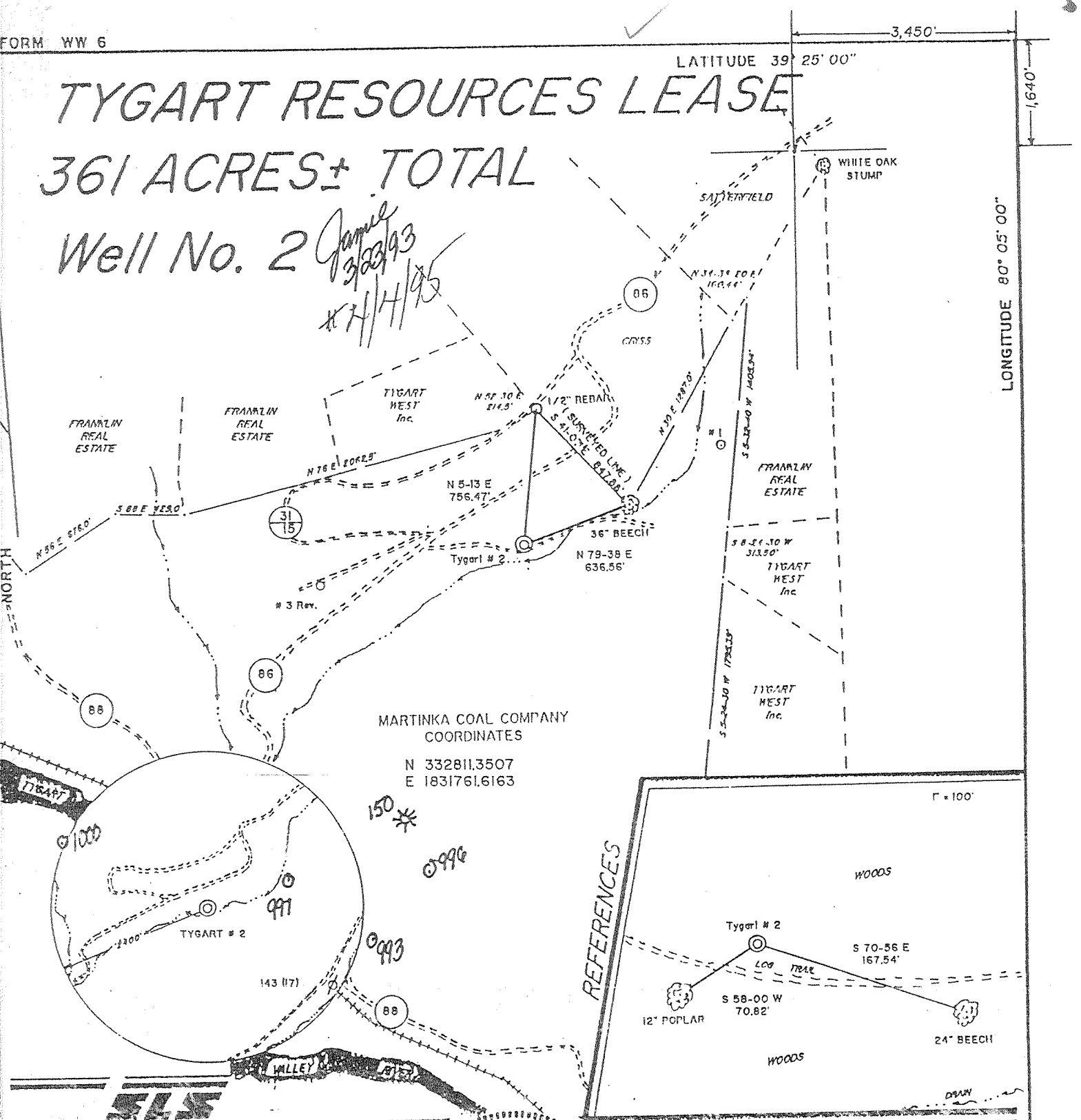
LATITUDE 39° 25' 00"

LONGITUDE 80° 05' 00"

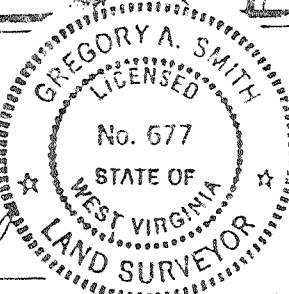
# TYGART RESOURCES LEASE

## 361 ACRES+ TOTAL

Well No. 2 *Jamie 3/22/93 #7/14/95*



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.



L.L.S. *Gregory A. Smith*  
677

(-)- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 5, 1993  
OPERATORS WELL NO. TYGART # 2  
API WELL NO. 47-049-01001-F  
STATE COUNTY PERMIT CANCELLED

MINIMUM DEGREE OF ACCURACY 1/200  
FILE NO. 2934 (41-27)  
SCALE 1" = 800'  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1556'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ "GAS" PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1151' WATERSHED TRIBUTARY TO TYGART VALLEY RIVER  
DISTRICT UNION COUNTY MARION QUADRANGLE FAIRMONT EAST 7.5'  
SURFACE OWNER MARTINKA COAL COMPANY ACREAGE 361  
ROYALTY OWNER TYGART RESOURCES Inc. LEASE ACREAGE 361  
PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER  
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION Devonian 4th Sand ESTIMATED DEPTH 2300'

WELL OPERATOR MIQ-PENN ENERGY CORPORATION DESIGNATED AGENT J. THOMAS LANE Esq.  
ADDRESS 431 BEAVER ST, SEWICLEY, PA. 15143 ADDRESS BOWLES, RICE, McDAVID, GRAFF, & LOVE 16th Floor, Commerce Square, Charleston, WV 25301

COUNTY NAME MAR PERMIT 1001 CANCELLED

JUN 14 1999

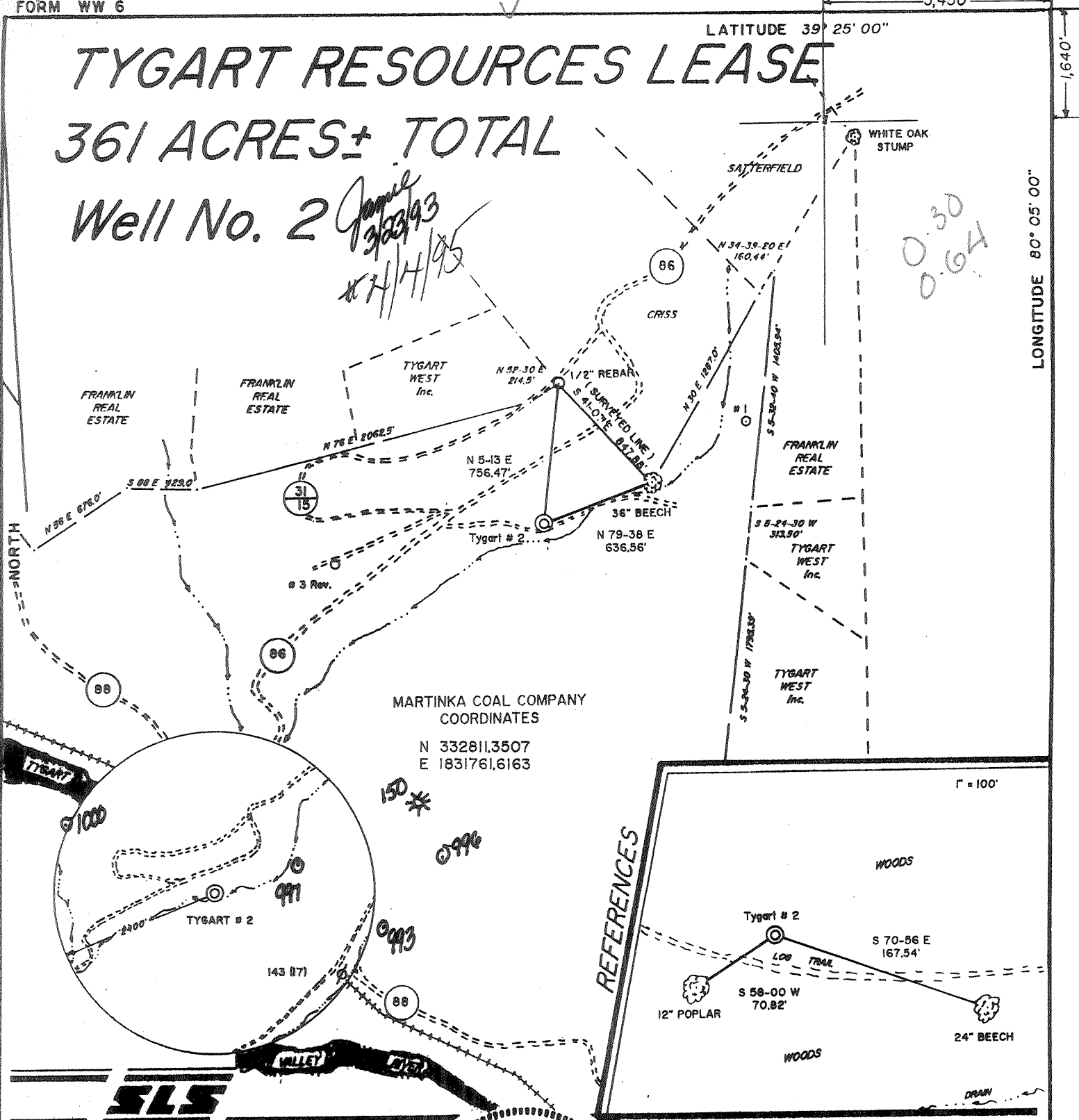
# TYGART RESOURCES LEASE

## 361 ACRES± TOTAL

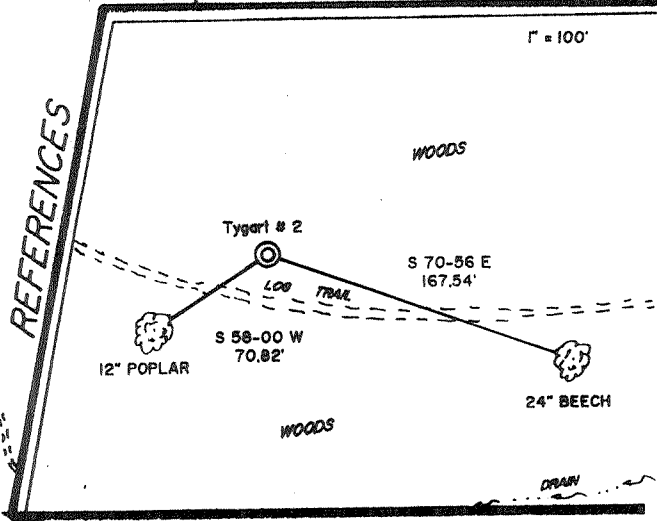
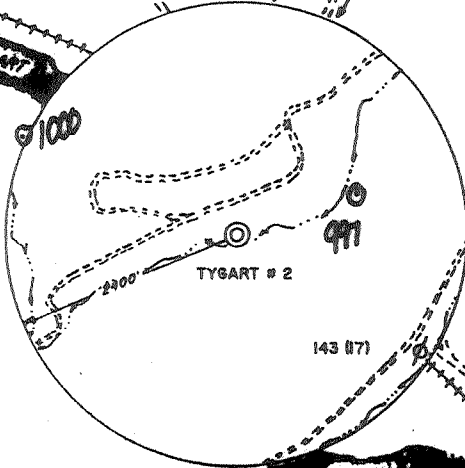
### Well No. 2 *Janice 3/23/93*

*11/14/95*

*0.30  
0.64*

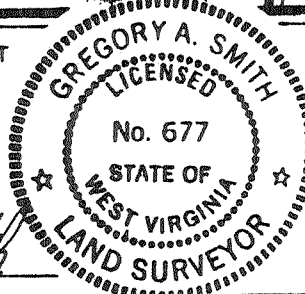


MARTINKA COAL COMPANY  
COORDINATES  
N 332811.3507  
E 1831761.6163



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.


L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 5, 19 93  
OPERATORS WELL NO. TYGART # 2  
API WELL NO. 47 - 049 - 01001-F  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2934 (41 - 27)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1556' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1151' WATERSHED TRIBUTARY TO TYGART VALLEY RIVER  
DISTRICT UNION COUNTY MARION QUADRANGLE FAIRMONT EAST 7.5'

SURFACE OWNER MARTINKA COAL COMPANY ACREAGE 361  
ROYALTY OWNER TYGART RESOURCES Inc. LEASE ACREAGE 361

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION Devonian 4th Sand  
ESTIMATED DEPTH 2300'

WELL OPERATOR MID-PENN ENERGY CORPORATION DESIGNATED AGENT J. THOMAS LANE Esq.  
ADDRESS 434 BEAVER ST. SEWICLEY, PA. 15143 ADDRESS BOWLES, RICE, McDAVID, GRAFF, & LOVE  
16th Floor, Commerce Square, Charleston, WV 25301

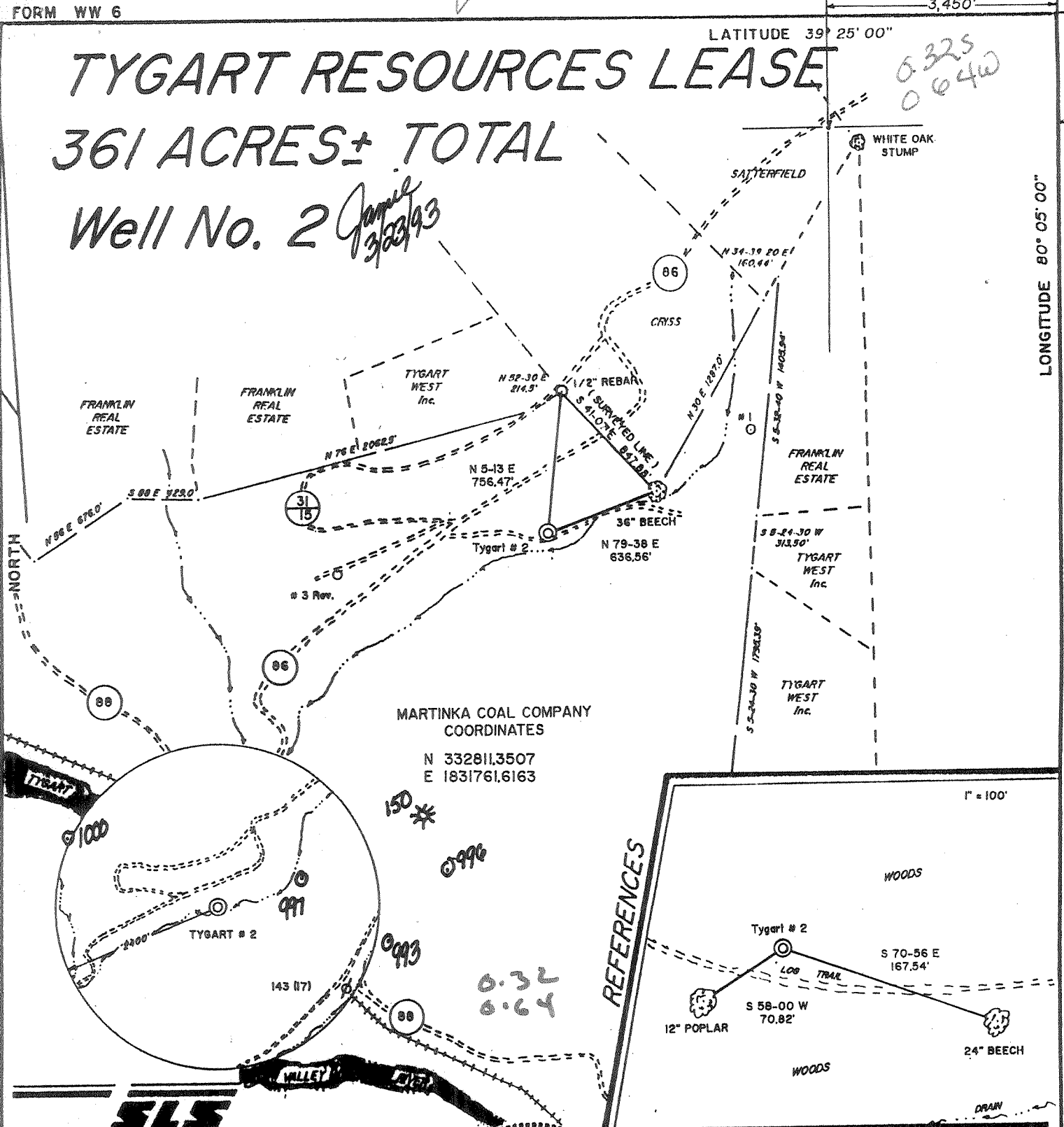
COUNTY NAME MAR  
PERMIT 1001

# TYGART RESOURCES LEASE

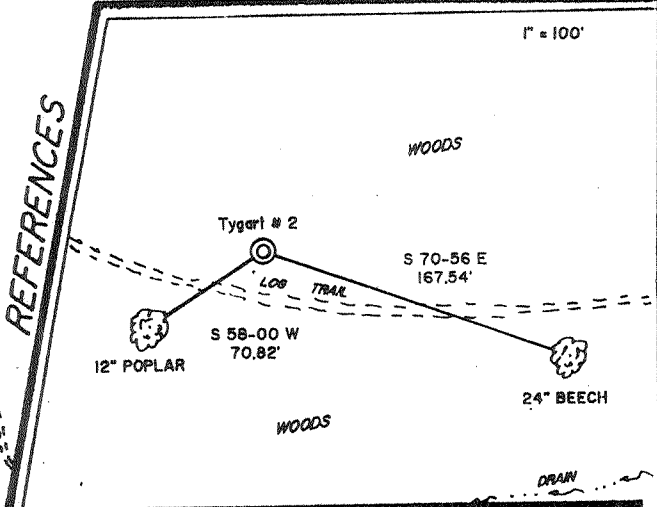
## 361 ACRES± TOTAL

### Well No. 2 *Jamil 3/22/93*

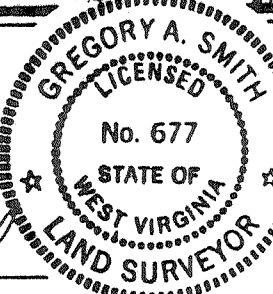
*0.325  
0.640*



MARTINKA COAL COMPANY  
COORDINATES  
N 332811.3507  
E 1831761.6163



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.



L.L.S. Gregory A. Smith  
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 5, 19 93  
OPERATORS WELL NO. TYGART # 2  
API WELL NO. 47 - 049 - 01001  
STATE            COUNTY            PERMIT             
*According to revised order 3-28-93*

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2934 (41-27)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1556' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1151' WATERSHED TRIBUTARY TO TYGART VALLEY RIVER  
DISTRICT UNION COUNTY MARION QUADRANGLE FAIRMONT EAST 7.5'  
SURFACE OWNER MARTINKA COAL COMPANY ACREAGE 361  
ROYALTY OWNER TYGART RESOURCES Inc. LEASE ACREAGE 361  
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
PHYSICAL CHANGE IN WELL (SPECIFY)            TARGET FORMATION Devonian 4th Sand  
ESTIMATED DEPTH 2300'

WELL OPERATOR MIQ-PENN ENERGY CORPORATION 5567 DESIGNATED AGENT J. THOMAS LANE Esq.  
ADDRESS 434 BEAVER SI. SEWICLEY, PA. 15143 ADDRESS BOWLES, RICE, McDAVID, GRAFF, & LOVE  
16th Floor, Commerce Square, Charleston, WV 25301

LONGITUDE 80° 50' 08"

COUNTY NAME

PERMIT

575

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: MARTINKA COAL COMPANY Operator Well No.: TYGART RES. #2

LOCATION: Elevation: 1,151.00 Quadrangle: FAIRMONT EAST

District: UNION County: MARION  
Latitude: 1640 Feet South of 39 Deg. 25Min. Sec.  
Longitude 3450 Feet West of 80 Deg. 5 Min. Sec.

Company: MID-PENN ENERGY CORPORATI  
434 BEAVER STREET  
SEWICKLEY, PA 15143-0000

Agent:

Inspector: RANDAL MICK  
Permit Issued: 03/24/93  
Well work Commenced: 3/26/93  
Well work Completed: 3/28/93  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2309'  
Fresh water depths (ft) None  
Salt water depths (ft) None

Is coal being mined in area (Y/N)? Y  
Coal Depths (ft): 120-126'; 298-309'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	43'	43'	sanded in
8-5/8"	620.50'	620.50'	165 sx

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MID-PENN ENERGY CORPORATION

By: Shannon S. Johnson, President

Date: March 27, 1995

Well is waiting on completion orders.

Tygart #2

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Comments</u>
Clay, dirt	0	43	Water @ 40'
Shale	43	85	
Sand (white)	85	88	Water @ 86'
Shale (dark)	88	120	
Coal, dark shale	120	126	
Shale	126	198	
Sand	198	298	
Coal	298	309	
Shale	309	345	
Sand	345	379	
Red shale	379	417	
Sand	417	420	
Shale	420	429	
Sand	429	529	
Shale	529	770	
Lime	770	920	
Shale	920	1020	
Sand	1020	1030	
Shale	1030	1200	
Sand	1200	1230	
Shale	1230	1370	
Sand	1370	1385	
Shale	1385	1545	
Sand	1545	1550	
Shale	1550	1820	
Sand	1820	1830	
Shale	1830	1840	
Sand	1840	1845	
Shale	1845	1880	
Sand	1880	1890	
Shale	1890	2309	
TD	2309		

RECEIVED  
WV Division of  
Environmental Protection

049-1001  
Issued 3/24/93  
Expires 3/24/95  
Page \_\_\_ of \_\_\_

FORM WW-2B MAR 23 93

Permitting Office **STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS**  
**WELL WORK PERMIT APPLICATION**

- 1) Well Operator: Mid-Penn Energy Corporation 32255 (C) 342
- 2) Operator's Well Number: Tygart Resources #2 3) Elevation: 1151'
- 4) Well type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow  421
- 5) Proposed Target Formation(s): Upper Devonian 4th sand @ 1862'
- 6) Proposed Total Depth: 2200 feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: Possible salt water shows 1024' - 1069'
- 9) Approximate coal seam depths: Possible coal depths 34', 182', 230', 389'
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill and complete Upper Devonian 4th sand
- 12)

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"	LS	36#	40'	40'	38CSR 11.3
Fresh Water						38CSR 11.2.2
Coal	8-5/8"	J	23#	600'	600'	cement to surface
Intermediate						
Production	4-1/2"	J	10.5#	2075'	2075'	fill to 1362'
Tubing						38CSR 11.1
Liners						

**PACKERS** : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

3476/6  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Corral Inc. Fund  Agent  
 (Type)

17011

MAR 23 93  
Office of Oil & Gas

1) Date: January 25, 1993  
2) Operator's well number  
Tygart Resources #2  
3) API Well No: 47 - 049 - 1001  
State - County - Permit

1001

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name ~~Tygart Resources, Inc.~~
  - Address ~~108 McCurdy Drive~~  
~~Pittsburgh, PA 15235~~
  - (b) Name Martinka Coal Co.
  - Address P.O. Box 1233  
Charleston, WV 25324
  - (c) Name \_\_\_\_\_
  - Address \_\_\_\_\_
- 5) (a) Coal Operator:
- Name Martinka Coal Co.
  - Address P.O. Box 1233  
Charleston, WV 25324
  - (b) Coal Owner(s) with Declaration
  - Name Tygart Resources, Inc.
  - Address 108 McCurdy Drive  
Pittsburgh, PA 15235
  - Name \_\_\_\_\_
  - Address \_\_\_\_\_
- 6) Inspector Randal Mick
- Address 111 Blackshere Drive  
Mannington, WV 26582
  - Telephone (304)- 986-3324
- (c) Coal Lessee with Declaration
- Name Martinka Coal Co.
  - Address P.O. Box 1233  
Charleston, WV 25324

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Notarial Seal  
Ellen J. Lowen, Notary Public  
Sewickley Boro, Allegheny County  
My Commission Expires April 24, 1995  
Member, Pennsylvania Association of Notaries

Well Operator Mid-Penn Energy Corporation  
By: Shannon S. Johnson, Shannon S. Johnson  
Its: President  
Address 434 Beaver Street  
Sewickley, PA 15143  
Telephone (412) 741-7015

Subscribed and sworn before me this 25th day of January, 1993

Ellen J. Lowen

Notary Public

My commission expires April 24, 1995

RECEIVED  
WV Division of  
Environmental Protection

049-1001-F Issued 04/06/95

FORM WW-2B

FEB 27 1995

Page of  
Expires 04/06/97

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Office of Oil & Gas WELL WORK PERMIT APPLICATION

20290

- ) Well Operator: Mid-Penn Energy Corporation (#32255) (C) 342
- ) Operator's Well Number: Tygart Resources #2 3) Elevation: 1151'
- ) Well type: (a) Oil    / or Gas X /  
(b) If Gas: Production    / Underground Storage    /  
Deep    / Shallow X /
- 5) Proposed Target Formation(s): Upper Devonian 4th sand @ 1862'
- 6) Proposed Total Depth: 2200' feet
- 7) Approximate fresh water strata depths:
- 8) Approximate salt water depths: Possible salt water shows 1024' - 1069'
- 9) Approximate coal seam depths: Possible coal depths 34', 182', 230', 389'
- 10) Does land contain coal seams tributary to active mine? Yes XX / No    /
- 11) Proposed Well Work: Frac existing well that was never completed.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
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Coal	8-5/8"	J	23#	600'	600'	Cement to surface
Intermediate						
Production	4-1/2"	J	10.5#	2075'	2075'	fill to 1362'
Tubing						
Liners						

PACKERS : Kind     
Sizes     
Depths set   

For Division of Oil and Gas Use Only

4862/10

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket  Agent  
 (Type)



**RECEIVED**  
WV Division of  
Environmental Protection

FEB 27 1995

- 1) Date: February 22, 1995
- 2) Operator's well number Tygart Resources #2
- 3) API Well No: 47 - 049 - 1001 - F  
State - County - Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Martinka Coal Co.  
Address P.O. Box 1233  
Charleston, WV 25324
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name Martinka Coal Co.  
Address P.O. Box 1233  
Charleston, WV 25324
  - (b) Coal Owner(s) with Declaration  
Name Tygart Resources, Inc.  
Address 108 McCurdy Drive  
Pittsburgh, PA 15235
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Randal Mick  
Address 111 Blackshere Dr.  
Mannington, WV 26582  
Telephone (304)- 986-3324
- (c) Coal Lessee with Declaration  
Name Martinka Coal Co.  
Address P.O. Box 1233  
Charleston, WV 25324

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

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Well Operator Mid-Penn Energy Corporation  
By: Shannon S. Johnson  
Its: President  
Address 434 Beaver Street  
Sewickley, PA 15143  
Telephone (412) 741-7015

Notarial Seal  
Ellen J. Lower, Notary Public  
Sewickley Boro. Allegheny County  
My Commission Expires April 24, 1995  
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 22nd day of February, 1995

Ellen J. Lower Notary Public  
My commission expires April 24, 1995